## Density Functional Theory Study of Colossal Magnetoresistance Material $La_{0.67}Sr_{0.33}Mn_{1-x}Fe_xO_3$ Prepared Using Two Different Routes

## **Thesis**

Submitted to

The M. S. University of Baroda, Vadodara, India

For the Degree of

## **Doctor of Philosophy**

in Science

in the subject of Physics

By

Ms. Nidhi M. Astik



under the Supervision of

## Prof. Prafulla K. Jha

Department of Physics,
Faculty of Science,
The M. S. University of Baroda,
Vadodara -390 002, Gujarat, India
2019